

DIAGNOSTIC SYSTEM INTEGRATED WITH DEVICE DRIVERS OF AN OPERATING SYSTEM

ABSTRACT OF THE DISCLOSURE

5 A hardware access layer interface for performing diagnostics in a computer
system having an operating system and at least one hardware device. The interface is a
registering and synchronizing agent in the given operating system. The interface has a device
driver for managing the hardware device, a kernel module for communicating with the device
driver and the operating system, and a diagnostic module for coordinating with the kernel
10 module and/or the device driver in order to perform diagnostics on the hardware device. The
interface enables the device driver to publish its capabilities to interested diagnostic modules
or the module responsible for managing the device.

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